

# Missouri Conservation Frontiers

## Program Guide

### A look at what's inside

About the program	page 1
Awards and Achievement Levels	page 2
Activities and Point System	page 4
Notebook Setup	page 5
Nature Walks and Field Trips	page 5
Forestry Activities	page 7
Plant and Fungi Studies	page 8
Wildlife Studies	page 9
Aquatic Studies	page 12
Agricultural Activities	page 14
Helping Wildlife	page 15
Harvesting Fish and Wildlife	page 19
Cleanup and Recycling	page 20
Helping Your Community	page 22
Special Events	page 23
Participation in Youth Groups and Other Organizations	page 26
Miscellaneous Enrichment Studies	page 28
Leader Designed and Department of Conservation Approved Activities	page 34
List of Contacts	page 35
Conservation References	page 36

### About the program

Missouri Conservation Frontiers is a program that will help you learn about Missouri's natural resources and how to enjoy and protect them. We hope it will also help you become a good conservationist.

You will learn about our state's natural resources by doing the activities in this Program Guide. As you complete the activities, you will earn points that make you eligible to receive special Frontiers awards. Adult leaders may also earn points and receive awards. The points and awards are described in the next section.

Your Frontiers leader will help you get started in the program. Talk to your leader if you have questions or need help with any of the activities. If you start the program through a school or youth organization, you may get a parent or other adult to be your sponsor. As long as you have a sponsor, you may continue in the program. (Note: Many activities, such as identification activities, should be conducted outdoors.)

Do you have friends who would like to enroll in the Missouri Conservation Frontiers program? Tell them to ask their parents, grandparents, older brothers or sisters or other adults to write for more information. Anyone can join-including adults-but children and teenagers need an adult sponsor (at least 18 years of age) to help them get started in the Frontiers program. Our address: Outreach and Education Division, Missouri Department of Conservation, P.O. Box 180, Jefferson City, MO 65102-0180.



# Awards and Achievement Levels

Points needed to reach each award level are a total of the points from the previous level, plus the new points earned to reach the next highest level. For example, to reach a Conservation Pathfinder award level, you will need to complete new activities totaling 1,000 points to add to the 2,000 points of Conservation Explorer.

## Conservation Pioneer

Participants become Conservation Pioneers by signing their pledge cards which are included in the Pioneer Packets. Each Pioneer receives a Pioneer zipper pull and a bumper sticker. Work toward the next level may begin.



1,000 pts.

## Conservation Tracker

The requirements for the status of Conservation Tracker are to start a *Conservation Frontiers* notebook (Activity 1) and earn a total of 1,000 points. Each Tracker receives a Frontiers water bottle.

## Conservation Explorer

You become a Conservation Explorer by earning a total of 2,000 points. Each Explorer receives a hand lens to help study and explore nature.



2,000 pts.



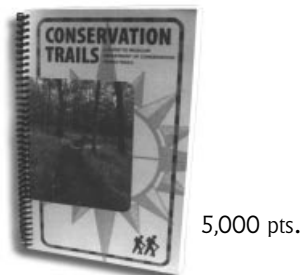
3,000 pts.

## Conservation Pathfinder

A total of 3,000 points is required to become a Pathfinder. Each Pathfinder receives a Pathfinder patch and Frontiers t-shirt.

## Conservation Pathfinder Steward

When you earn a total of 5,000 points, you become a Pathfinder Steward. Each Pathfinder Steward receives *Conservation Trails*, a book of Missouri hiking trails.



5,000 pts.



7,000 pts.

## Conservation Pathfinder Master

The requirement for reaching the level of Pathfinder Master is a total of 7,000 points. Each Pathfinder Master will receive a bucket-style fishing hat.

*Styles of awards may vary*

### Conservation Homesteader

The requirement for the status of Homesteader is to earn a total of 9,000 points. Each Homesteader receives the *Missouri Nature Viewing Guide*, a book on watching wildlife.



9,000 pts.



12,000 pts.

### Conservation Homesteader Steward

To achieve the Homesteader Steward level, a total of 12,000 points is required. Each Homesteader Steward will receive a compass and a Frontiers belt pack.

### Conservation Homesteader Master

A total of 15,000 points is required to become a Homesteader Master. Each Homesteader Master receives a pair of Frontiers binoculars.



15,000 pts.



### Conservation Trailblazer

The Conservation Trailblazer award is reached with a total of 18,000 points. Each Trailblazer is awarded a limited edition sterling silver medal.

18,000 pts.

### Conservation Trailblazer Steward

To reach the Trailblazer Steward level, a total of 22,000 points is required. Each Trailblazer Steward receives a steward pin (not shown) and a mini flashlight.



22,000 pts.



### Conservation Trailblazer Master

A total of 26,000 points is required to reach the Trailblazer Master level. Each Trailblazer Master receives a master pin (not shown) and a backpack.

26,000 pts.

### Missouri Conservationist

The Missouri Conservationist award represents the highest level of achievement and a total of 30,000 approved points is required. Each Missouri Conservationist is awarded a plaque with a limited edition print signed by the artist.



30,000 pts.

# Activities and Point System

## ACTIVITY SUBJECT AREAS:



Notebook Setup Activity 1



Nature Walks and Field Trips Activities 2-10



Forestry Activities Activities 11-16



Plant and Fungi Studies Activities 17-24



Wildlife Studies Activities 25-42



Aquatic Studies Activities 43-51



Agricultural Activities Activities 52-57



Helping Wildlife Activities 58-76



Harvesting Fish and Wildlife Activities 77-82



Cleanup and Recycling Activities 83-89



Helping Your Community Activities 90-96



Special Events Activities 97-106



Participation in Youth Groups and Other Organizations Activities 107-113



Miscellaneous Enrichment Studies Activities 114-128



Leader Designed and Department of Conservation Approved Activities Begins with Activity 129

# Conservation Frontiers Notebook Setup



## 1. Notebook Setup

*This is the only required activity and is to be completed first.* The notebook is used to record points received. It should consist of a three-ring binder, this program guide and all required activity reports, summaries, maps and other objects and information. The notebook will also be used for leader approval of activities. Examination of the notebook by Department of Conservation staff may be required before the higher achievement awards can be granted. Notebook setup, 100 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

# Nature Walks and Field Trips



## 2. ABC Nature Hunt

Go on an ABC nature hunt. Look for natural objects that begin with each letter of the alphabet. Record the name of each object you find in your *Frontiers* notebook. For each object found (maximum of one object for each letter), 10 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



## 3. Nature Walk

Go on a walk. Find things in nature that are 1) fuzzy, 2) soft, 3) hard, 4) smooth, 5) rough, 6) bumpy, 7) slick, 8) round, 9) short, 10) tall, 11) wet, 12) dry and 13) pointed. Record the name of each thing found and its characteristic in your *Frontiers* notebook. For each object found (maximum of one object for each characteristic), 10 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

## 4. Color Walk

Go on a color walk. Find things in nature that are 1) blue, 2) red, 3) yellow, 4) green, 5) purple, 6) pink, 7) orange, 8) brown, 9) black, 10) gray and 11) white. Record the name of each thing found and its color in your *Frontiers* notebook. For each object found (maximum of two objects for each color), 10 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

5. **Bird Walk**

Go with your leader on an early morning bird walk in the woods or park. Name the birds you see. Put drawings or pictures of each bird in your *Frontiers* notebook. For each drawing or picture (two walks per season, look for different species), 20 points possible.

	POINTS EARNED	DATE COMPLETED	LEADER APPROVAL
SPRING			
SUMMER			
FALL			
WINTER			

6. **Animal Signs**

Take a walk in your yard, neighborhood or park to look for animal signs (nests, holes in trees, webs or tracks). Add drawings of these signs to your *Frontiers* notebook and try to name the animals that left these signs. For each sign (limit 20 different signs per achievement level), 20 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



6

7. **Nature Study Field Trip**

Go with your leader or other adult on a nature study field trip. For each trip (maximum of four field trips per year), 50 points possible.

Field Trip Location \_\_\_\_\_

Field Trip Location \_\_\_\_\_

Field Trip Location \_\_\_\_\_

Field Trip Location \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

8. **Outdoor Camping**

Camp outdoors overnight and report on your experiences, both good and bad. Write about your experience in your *Frontiers* notebook. For each overnight campout recorded (maximum of two per achievement level), 100 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

9. **Wildlife Museum Field Trip**

Visit a zoo, botanical garden, natural history museum or other facility to study the species of plants and animals native to Missouri. Record the principal uses and interesting facts about each species in your *Frontiers* notebook. For the first 15 species studied, 150 points possible.

Each additional species, 10 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

10. **Map and Compass**

Use a map and compass to navigate a 10-kilometer trail (5 miles) or cross-country hike. Record your route on a map and mark your compass bearings at each major turn along your route. For each achievement level, 200 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

## Forestry Activities



11. **Arbor Day Planting**

Help plant a tree on Arbor Day (the first Friday in April). Each Arbor Day, 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

12. **Bark and Leaf Rubbings**

Learn to name five Missouri trees. Make a bark rubbing and leaf print or leaf rubbing for each tree. Put these in your *Frontiers* notebook, 100 pts.

Each additional tree (maximum of 20 trees), 20 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

13. **Wood Products**

Record in your notebook 10 things in your home that are made of wood, 100 pts.

Each additional item (maximum of 20 items), 10 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

14. **Identifying Trees**

Identify 15 Missouri trees. List each tree's principal importance to nature and people, 200 pts.

Each additional tree, 15 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

15. **Wood Blocks**

Collect 10 wood samples with blocks measuring 3 cubic centimeters (1 inch). Label the wood with its common name, scientific name, where it grows and what it is used for, 200 points possible.

Each additional block, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

16. **Forest Monitoring Plot**

Establish a Forest Monitoring Plot. Collect data using the Forestkeepers (see List of Contacts, page 35) techniques, 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

## Plant and Fungi Studies



8

17. **Poisonous Plants**

Write a report on some of Missouri's plants that are poisonous to people, the effects of these plants on people, the treatment for the consumption of or exposure to these plants and the means for avoiding these poisonous plants. For each poisonous plant reported (maximum of 10 species), 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

18. **Backyard Study**

Ask your parents to let a small part of your yard go without cutting or trimming for the spring and summer. Make a drawing of the changes you see once a month for a maximum of eight months. Explain these changes in your *Frontiers* notebook. For each drawing (maximum of eight drawings per achievement level), 50 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



19. **Seed Collection**

Make a collection of 10 different seeds from weeds, shrubs and trees. Record how the seeds are alike and different and how they are transported from place to place, 100 points possible.

Each additional seed (maximum of 20 seeds), 20 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

20. **Terrarium**

Plant and care for a terrarium with at least five different plants, 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

21. **Herb, Vine and Shrub Identification**

Identify 10 common Missouri wildflowers, vines or shrubs and list their principal importance to nature and people, 100 points possible.

Each additional wildflower (maximum of 20), 20 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

22. **Grass Identification**

Identify five wild grasses and list their importance to nature and people, 200 pts.

Each additional grass, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

23. **Fern, Moss and Lichen Identification**

Identify 10 Missouri ferns, mosses and lichens and list their importance to nature and people, 200 pts.

Each additional fern, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

24. **Fungus Identification**

Identify 10 Missouri fungi. Record the name, importance to nature and people and identify each as either edible or poisonous, 200 pts.

Each additional fungus, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

25. **Backyard Wildlife Watching**

List the different kinds of birds and other animals that visit your feeders and bird bath. Draw and color each visitor. Put these in your *Frontiers* notebook. For each different animal, 20 points possible.  
(Note: See Activities 62 and 63.)

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

Wildlife Studies



26. **Backyard Wildlife Habitat**

In your yard, pretend that you are a deer, raccoon, owl, opossum, songbird, deer mouse and snake. Try to find a place to live and food to eat.

If there is no place to live or nothing to eat, talk to your parents about what you can do to make your yard a better place for wildlife. For each animal studied, 25 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

27. **Ant Observing**

Find an active ant mound and watch the ants for 15 minutes. Use pictures or words to tell what the ants are doing, 50 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

28. **Night Insects**

Look for insects under a street light on a summer night. Draw pictures of three kinds of insects you find, 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

29. **Outdoor Hazards**

Write a report on some of Missouri's wildlife species that are potentially harmful to people (such as stinging insects, venomous spiders and venomous snakes), the effects of these animals on people, the treatment for their stings or bites and the means for avoiding these wildlife species. For each wildlife species reported (maximum of 10 species), 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

30. **Wildlife Calls**

Learn the calls and songs of five different animals (birds, mammals, amphibians or insects) and imitate these sounds for your leader. List the animals and record how they use the sounds, 100 pts.

Each additional animal (maximum of 20), 20 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

31. **Squirrel Nest Study**

Do a study of squirrel nests in your neighborhood. In your *Frontiers* notebook, list your observations-how a squirrel builds and uses nests, the location of the entrance holes, preferences for certain kinds of trees and where the nests are placed in trees, 100 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

32. **Insect Identification**

Identify 10 Missouri insects. List where each is found and its importance to nature and people, 200 points possible.

Each additional insect, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

33. **Invertebrate Identification**

Identify 10 Missouri invertebrates (excluding insects). List where each is found and its importance to nature and people, 200 pts.

Each additional species, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

34. **Snake Identification**

Identify five Missouri snakes and tell whether each is venomous or nonvenomous. List each snake's food and habitat preferences and its importance to nature and people, 200 pts.

Each additional snake, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

35. **Amphibian and Reptile Identification**

Identify five Missouri amphibians and reptiles (excluding snakes). Tell whether each is an amphibian or reptile, where each is found and its importance to nature and people, 200 pts.

Each additional amphibian or reptile, 20 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



36. **Fish Identification**

Identify 10 Missouri fishes (five game or sportfish and five nongame). For each, list the season and creel limit, habitat, foods eaten and importance to nature and people, 200 pts.

Each additional fish, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

37. **Bird Identification**

Identify 20 Missouri birds. List the status (resident or migratory, game or nongame) of each and describe the regulations in the *Wildlife Code of Missouri* pertaining to each and its importance to nature and people, 200 pts.

Each additional bird, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 38. Owl Pellet Study

Conduct an owl pellet investigation. Identify and describe, with drawings, the components of the pellet, 200 points possible.  
(Once per achievement level)

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 39. Mammal Identification

Identify 10 wild Missouri mammals including their tracks. Describe where each is found, list the hunting or trapping regulations and describe its importance to nature and people, 200 pts.

Each additional mammal, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 40. Urban Wildlife Survey

Do a survey and write a report that lists and describes the species of wildlife found in an urban area. Describe how and why the urban habitat favors some types of wildlife, 300 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



12

### 41. Neighborhood Wildlife Habitat

Make a vegetative map of your neighborhood and list changes that would improve wildlife habitat. Relate to seasonal changes, 300 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 42. Game and Fish Regulations

Recite the open statewide seasons, daily limits and possession limits for all nonmigratory species of Missouri game and fish. Explain why regulations are necessary and why they may change from year to year, 400 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



### 43. Storm Drain Stenciling

Participate in the Storm Drain Stenciling program (see List of Contacts, page 35). For each drain stenciled, 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

44. **Casting Animal Tracks**

Search along a stream or pond edge, or other damp area for wild animal tracks. Name the animal that made the tracks and, with your parent or leader, make plaster casts of these tracks. For each different track, 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

45. **Aquatic Plants**

Identify five Missouri aquatic plants and list their principal importance to nature and people, 100 points possible.

Each additional aquatic plant, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

46. **Aquatic Invertebrates**

Go with your leader to a pond, lake, marsh or stream and use kitchen sieves or strainers to locate five insects or other animals in the mud bottom. Draw these in your *Frontiers* notebook and try to name them, 100 points possible.

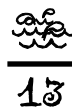
For each additional insect, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

47. **River Observation**

Visit a river area. Observe all the activities on the river for one hour. Report on how people and wildlife are using the river area, 100 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



48. **Aquatic Wildlife Sounds**

Visit a lake, pond or stream in the evening. Listen closely for the sounds of animals such as toads, frogs, birds and insects. Identify five different animals you hear, describe the types of sounds they make and tell how they are dependent on the water, 100 points possible.

Each additional animal, 20 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

49. **Water Quality Testing**

Conduct water quality testing on a local stream (see List of Contacts, page 35). For each stream tested, 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

50. **Litter Pick-up**

Conduct a litter pick-up along a stream. For each stream cleaned, 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

# 51. Stream Map

Explore and map a 1-kilometer (one-half mile) section of a stream. List water depth, stream width, relative speed (fast or sluggish), bottom features and plant life and animals present. Report on how the stream has been altered by people and whether or not these changes have been beneficial. For each 1-kilometer (half-mile) section, 500 points possible.

Stream location \_\_\_\_\_

Stream location \_\_\_\_\_

Stream location \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

## Agricultural Activities

(See also Activity 109 for Future Farmers of America.)

# 52. Soil Erosion

Visit a farm and talk to the owner about how he or she stops soil erosion. Tell about your visit using words, pictures or drawings, 100 pts. (Once per achievement level)

Indicate Achievement \_\_\_\_\_

Indicate Achievement \_\_\_\_\_

Indicate Achievement \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

# 53. Beekeeping

Visit a beekeeper to find out how bees are raised and how they are important to people and nature. Tell about your findings using words, pictures and drawings, 150 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

# 54. Missouri Farm Crops

Identify 10 Missouri crops and list their principle importance to nature and people, 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

# 55. Farming and Wildlife Survey

Make a survey of a farm at least 80 acres (32.4 hectares) in size to find its wildlife habitat possibilities. Draw a map showing creeks, ponds, timber, fields, nesting spots and other areas, and then describe how good management practices could produce better crops and benefit wildlife at the same time, 500 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



56. **Soil Conservation**

Control soil erosion on a farm, outdoor classroom, housing or other urban development, or other problem areas. Plant trees, shrubs or grasses or use another practice recommended by the Natural Resources Conservation Service (maximum of one project per achievement level), 500 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

57. **Agricultural Project**

Complete a Supervised Agricultural Experience (SAE, contact your school's agriculture education instructor) project (for each year), 200 pts.

Year \_\_\_\_\_

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

For each conservation-related practice or achievement completed, receive an additional 100 points.

Indicate Achievement \_\_\_\_\_

Indicate Achievement \_\_\_\_\_

Indicate Achievement \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



15

## Helping Wildlife



58. **Shrub Border**

Plant and care for a permanent border consisting of seed- and berry-producing shrubs. For each shrub (maximum 50 shrubs), 10 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 59. Fish Shelters

Collect used Christmas trees and take them to a place where they can be used as fish shelters in ponds and lakes. For each tree collected (once per year), 20 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 60. Backyard Wildlife Planting

Help plant trees, shrubs and flowers at home to help wildlife such as birds, squirrels and butterflies. For each plant provided (maximum of 20 plants), 20points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 61. Wildlife Habitat Planting

Plant wildlife food- and cover-producing trees and shrubs in clumps of five on rough, unpastured land, along a creek or fence, at the edge of wooded areas or near marshes and ponds. For each clump (maximum 20 clumps), 25 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 62. Birdfeeding

Put up a birdfeeder and keep it filled during the winter months. For each month maintained, 50 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 63. Watering Wildlife

Put out a birdbath and keep it filled with water. For each month maintained, 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 64. Building Birdhouses

Build a birdhouse and put it up in the proper habitat. For each house built and put up (maximum of five structures per achievement level), 100 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 65. Feeding Squirrels

Put up a squirrel feeder with nuts or grain during the winter months. For placing the feeder, 100 points possible.

For each month maintained, 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



66. **Building Brushpiles**

Build brushpiles to provide cover for rabbits, quail and other small animals. For each brushpile that is 2 meters (6 feet) high (maximum two per achievement level), 100 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

67. **Hawk and Owl Nest Boxes**

Build and put up a barn owl, screech owl or sparrow hawk nest box. For each box built and put up (maximum of three per achievement level), 200 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

68. **Bat House**

Build and put up a bat house in the proper habitat. For each box put up (maximum of three per achievement level), 200 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



69. **Squirrel Den Box**

Build and put up a squirrel den box. For each box built and put up (maximum of three per achievement level), 200 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

70. **Wood Duck Nest Box**

Build and put up a wood duck nest box in the proper habitat. For each box put up (maximum of three per achievement level), 300 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

71. **Butterfly Garden**

Plant and care for a butterfly garden. Name the plants and list the types of butterflies that are attracted. Draw the plan for the butterfly garden in your *Frontiers* notebook, 300 points possible.

For each year maintained, 100 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

72. **Wildlife Habitat Planning**

Design and use a landscape plan for your yard or other piece of land that would benefit wildlife. Include the plan in your *Frontiers* notebook, 500 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



18

73. **Windbreak Planting**

Plant, mulch and care for a windbreak using trees and shrubs and proper planting methods recommended by the Department of Conservation. The windbreak, which provides wildlife food and cover protection from the wind, may be on a farm, schoolyard or housing development. For each 50 feet of windbreak, 500 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

74. **Reforestation Planting**

Plant trees for a reforestation project in coordination with local forestry staff. Trees are available from the Department of Conservation and can be ordered in the fall and planted in late winter or early spring (see List of Contacts, page 35). For each tree (maximum 100 trees per achievement level), 5 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

75. **Pond Construction**

Develop a newly constructed pond for fish and wildlife. Fence the pond if it is open to livestock grazing. This project will require fertilizing, seeding and mulching the banks to prevent erosion, and planting trees and shrubs for wildlife food and cover. Fish for an approved pond are available free of charge from the Department of Conservation (see page 37, "Pond Stocking Application"), 2,000 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

76. **Wildlife Area Maintenance**

Build and care for a wildlife area of at least one acre in size. The area must include at least 100 seedlings beneficial to wildlife, a water supply and shrubs and forbs as recommended by the Department of Conservation. In your *Frontiers* notebook, include a map of this area showing existing features and those you established, 2,000 points possible.

For each year maintained, 500 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

## Harvesting Fish and Wildlife



77. **Hunter Education**

Complete a Missouri Hunter Education program and obtain the Hunter Safety Certification Card, 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

78. **Fishing Trip Report**

Take a fishing trip with your parents, friends or relatives to a local pond, lake or river and use proper outdoor ethics and legal methods. Write a report about your experience, listing what fish you caught, how many, what bait or lures you used and what you learned from the experience, 100 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

79. **Drawing Fish**

Go with an adult on fishing trips until you have seen five kinds of fish. Draw and color pictures of the five fish showing the difference in size, color and shape. You may look at pictures in books to help you with your drawings. Add drawings to your *Frontiers* notebook, 100 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



### 80. **Harvesting Fish**

Harvest, dress, cook and eat a Missouri fish using proper outdoor ethics and legal methods. You may have help from an adult, but you are responsible for the majority of the work from harvest to table, 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 81. **Harvesting Game**

Harvest, field dress and care for, cook and eat a Missouri game bird or mammal using proper outdoor ethics, legal methods and recommended hunter education safety practices. You may have help from an adult, but you are responsible for the majority of the work from harvest to table, 200 pts.

For each additional species, 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 82. **Harvesting Furbearers**

Harvest a Missouri furbearing animal using proper outdoor ethics and legal methods and tan or preserve the hide. You may have help from an adult, but you are responsible for the majority of the work from harvest to finished pelt, 200 pts.

For each additional species, 50 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



20

## Cleanup and Recycling



### 83. **Litter Pick-up**

Pick up litter in your neighborhood or city park. For each plastic or paper grocery bag filled (a maximum of four bags per achievement level), 50 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 84. **Recycling Aluminum**

Collect and recycle 10 pounds (37.3 Kg) aluminum (maximum 50 pounds per achievement level).  
For each 10 pounds, 100 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 85. **Composting**

Build and care for a compost pile. Add your compost to a garden or flower bed. Each year you keep a compost pile, 200 points possible.

Year \_\_\_\_\_  
Year \_\_\_\_\_  
Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 86. **Adopt a Highway**

Participate for one full year in the Missouri Department of Transportation's Adopt-a-Highway program (see List of Contacts, page 35). For each year active in the program, 200 points possible.

Year \_\_\_\_\_  
Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 87. **Recycling Glass**

Collect and recycle 100 pounds (37.3 Kg) of glass (maximum of 200 pounds per achievement level). For each 100 pounds, 250 pts.

Indicate Achievement Level \_\_\_\_\_  
Indicate Achievement Level \_\_\_\_\_  
Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



21

### 88. **Trash Study**

Keep a one-week record of the types and quantity of material your family discards as trash. Divide these materials into biodegradable and non-biodegradable items that may be recycled in your community (once per achievement level), 400 points possible.

Indicate Achievement Level \_\_\_\_\_  
Indicate Achievement Level \_\_\_\_\_  
Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 89. Newspaper Recycling

Collect and recycle one metric ton of newspapers (once per achievement level) 500 pts.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

## Helping Your Community

### 90. Conservation Museum

Start a conservation museum\* at your school or home. The museum may include samples of wildlife foods, leaf and twig collections, photographs, drawings, posters, charts, models, wildlife pictures, wood samples or other items. For each different specimen added and labeled (maximum 50 specimens), 10 points possible.

*\*Remember it is illegal to collect bird feathers and nests.*

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 91. Community Project

Build and put up birdfeeders or nesting boxes at nursing homes, hospitals, senior citizen centers or day care centers. For each structure built and put up (maximum of five structures per achievement level), 100 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 92. Community Woodworking Workshop

Go with your leader to a nursing home, senior citizen center, day care center or other similar facility and teach the residents to make birdfeeders. Help hang these from trees where they can be seen from the windows, 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 93. Outdoor Classroom

Help with an outdoor classroom for your school grounds. This may include designing, building or caring for the outdoor classroom. For each year of assistance, 200 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



94. **Conducting Nature Walks**

Conduct a nature walk, sharing natural history and conservation information with a group from a school, nursing home, senior citizen center, day care center, hospital or other similar facility (maximum of two walks per achievement level), 300 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

95. **Community Nature Displays**

Bring nature indoors to people in nursing homes, senior citizen centers, day care centers and other similar facilities. Collect things such as fall leaves, acorns, mounted butterflies or other insects and antlers (legally harvested) and display them for the residents of the facilities. Also, draw, color and display pictures of your favorite things in nature. For each display placed in a facility, 400 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

96. **Conservation Event Exhibit**

Make a conservation exhibit for parents or the public. The exhibit may be done in connection with Arbor Day, National Wildlife Week, Earth Day, National Hunting and Fishing Day, Parent-Teacher Meeting or Bird Day (maximum of one exhibit per achievement level), 500 pts.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



23

## Special Events

97. **Celebrate Arbor Day**

Take part in an Arbor Day celebration (see List of Contacts, page 35). For each year of participation, 50 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



98. **Celebrate Hunting and Fishing**

Take part in a National Hunting and Fishing  
Day program (see List of Contacts, page 35).

For each year of participation, 50 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

99. **Celebrate Earth Day**

Take part in a National Wildlife Week or Earth  
Day program (see List of Contacts, page 35).

For each year of participation, 50 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

100. **Attend Conservation Events**

Take part in any other special conservation-  
related event such as Family Fishing Fair, Day in  
the Forest, Eagle Days, Prairie Day or a nature  
center event (see List of Contacts, page 35, or  
check the Department of Conservation website  
for an event list <<http://www.conservation.state.mo.us>>).

For each event attended and participated  
in, 50 points possible.

Name of Event/Location \_\_\_\_\_

Name of Event/Location \_\_\_\_\_

Name of Event/Location \_\_\_\_\_

Name of Event/Location \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

101. **Science Fair Project**

Enter a conservation-related science project in  
your school science fair. For each year  
entered, 200 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL





**102. Soil Conservation Poster Contest**

Enter a poster in the Soil and Water Conservation District poster contest in your county (see List of Contacts, page 35). For each year entered, 200 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**103. Junior Duck Stamp Contest**

Enter art in the Federal Junior Duck Stamp Contest (see List of Contacts, page 35). For each year entered, 200 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**104. Envirothon Competition**

Participate in a regional Envirothon competition through your school (see List of Contacts, page 35), 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**105. Wildlife Conservation Posters**

Draw and color five posters showing five different ways people can help wildlife. (Examples are to feed birds in winter, pick up litter, build bird houses, follow hunting and fishing regulations and control soil erosion.) Display these in a public area such as a mall, office building or hospital. For each display of five posters (maximum of two displays), 200 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**106. Public Presentation**

Give a five-minute talk to a school, political, civic, religious or planning group on one of the following topics. Each talk (maximum of two per achievement level), 300 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**Suggested Topics**

Why leaves change color in the fall

How animals prepare for winter

Bird migration

(Topics continued on page 26.)



## Public Presentation - Suggested Topics (continued)

Characteristics of some trees in my neighborhood  
How things in the out-of-doors change each season  
Habitat requirements of animals  
Beneficial animals that are often destroyed when people change wildlife habitats  
Soil, our basic resource  
Forests and flood control  
Missouri woods and their uses  
How Missourians take care of and use their resources  
The fur trade and Westward expansion and the fur trade today  
Economic and environmental benefits of energy conservation  
Economic and environmental benefits of recycling  
Wildlife presence in my neighborhood  
Environmental problems in my neighborhood or state  
Other conservation-related topic approved by the Leader. Topic: \_\_\_\_\_

## Participation in Youth Groups and Other Organizations



26

### 107. Youth Group Badge

Earn a conservation-related badge or honor through Boy Scouts, Girl Scouts, Camp Fire or other youth organizations. Each badge or honor received, 200 points possible.

Name of Badge or Honor \_\_\_\_\_

Name of Badge or Honor \_\_\_\_\_

Name of Badge or Honor \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 108. 4-H Project

Complete a 4-H Club Outdoorsman, Forestry, Fish Farming or other conservation-related project (see List of Contacts, page 35).  
Each project completed, 200 points possible.

Name of Project \_\_\_\_\_

Name of Project \_\_\_\_\_

Name of Project \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**109. FFA Project**

Participate in a conservation-related FFA project (see your school's agriculture education instructor).  
Each project completed, 200 points possible.

Name of Project \_\_\_\_\_

Name of Project \_\_\_\_\_

Name of Project \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**110. Naturalist Award**

Complete the Junior Naturalist Award program offered by the Missouri Department of Natural Resources (see List of Contacts, page 35), 200 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**111. Conservation Club**

Participate in a conservation club that has regular meetings. For each year's active membership, 200 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**112. Stream Team Member**

Participate for one full year in the Department of Conservation's Stream Team program (see List of Contacts, page 35). For each year active in the program, 200 points possible.

Year \_\_\_\_\_

Year \_\_\_\_\_

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**113. Forestkeeper**

Participate for one full year in the Forestkeepers program (see List of Contacts, page 35). For each year active in the program, 200 pts.

Year \_\_\_\_\_

Year \_\_\_\_\_

Year \_\_\_\_\_

Year \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

Participate in the Forestkeepers Academy, 200 pts.

# Miscellaneous Enrichment Studies



## 114. Conservation Photography

Take photographs of wildlife, environmental problems or *Conservation Frontiers* projects in your neighborhood. Keep photographs in your *Frontiers* notebook. Each photo should be of a different subject. Each photo (maximum of 10 photographs per achievement level), 20 pts.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

## 115. Nesting Material Study

Put small pieces of string and yarn of different colors outside for birds to use for spring nest building. Write down the colors the birds use most (once per achievement level), 50 pts.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



## 116. Endangered Species Report

Write a report on an endangered plant or animal in Missouri, where it was originally found, where it is now found and why it is on the endangered species list. For each species reported on (maximum of four per achievement level), 50 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

## 117. Conservation Library

Start a library of five books or pamphlets on conservation. Include a short report on each in your notebook, 100 points possible. For each additional book or pamphlet reported on and added to the library (maximum of five publications per achievement level), 25 pts.

**Conservation Library (continued)**

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

**118. Conservation Current Events**

Make a collection of 10 newspaper or magazine articles about conservation or the use of natural resources (once per achievement level), 100 points possible.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

**119. Conservation Oral Report**

Read a conservation-related article and give a report on the article for others in your *Frontiers* group or family (maximum of two oral reports per achievement level), 100 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

**120. Conservation Written Report**

Watch a television program (at least one-half hour in length) about an environmental problem or issue. Write a 300-word report about the program (maximum of two reports per achievement level), 200 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_



30

Indicate Achievement Level\_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level

Indicate Achievement Level \_\_\_\_\_

### 123. Written Essay

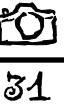
- the life history of one bird, mammal or fish, 100 pts.
- the necessity of proper habitat for wildlife, 150 pts.
- the role of decomposers (fungi, bacteria, insects, earthworms, etc.) in soil fertility, 150 pts.
- the human food web, including plants and animals used and the processing, transportation and sale of food items, 150 pts.
- predator-prey relationships, including the role of the predator in checking populations of prey species and the importance of good habitat for the prey species, 50 pts.
- the reasons for providing food for winter birds, including food preferences, feeder types and location, 200 pts.

[illegible]

## Written Essay (continued)

- the effect of introduced (exotic) plant and animal species on the environment and people, 200 pts.
- the negative aspects of keeping wild animals in captivity (describe alternate ways to study wild animals), 200 pts.
- conserving energy in the heating and cooling of homes and businesses, including the effects of trees, plants, wind, sun, types of building material and types of fuel used, 200 pts.
- areas in your neighborhood that show evidence of soil erosion and the types of corrective action that could be taken to control the erosion problems described, 200 pts.
- the geologic history of the area in which you live, including a discussion of glaciation, soil, streams, erosion and fossils, 300 pts.
- the effects (habitat loss, damage from pollution, disturbance) of human transportation systems on the living environment (propose some alternatives), 300 pts.
- the history of land use in your neighborhood (state how human use of the area has affected the air, soil, water, forests, grasslands, wildlife and mineral resources), 300 pts.

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



## 124. Conservation Career Interview

Interview a Department of Conservation or Department of Natural Resources employee in person or over the telephone (see List of Contacts, page 35). Ask questions about the person's responsibilities and the special problems that person has to deal with. Write a report about your interview (one interview per achievement level), 200 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

### 125. Conservation Survey and Report

Do a survey on one of the following topics and write a report on your findings (maximum of one survey per achievement level), 500 points possible.

	POINTS EARNED	DATE COMPLETED	LEADER APPROVAL
Indicate Achievement Level _____			
Indicate Achievement Level _____			
Indicate Achievement Level _____			

#### Suggested Topics

A daily checklist of wildlife species observed during a 90-day period  
Game animals taken during the current hunting or trapping season by members of your class or family

Wildlife species observed in a city park or outdoor classroom during a 30-day period

Number of farmers in your community who permit hunting on their land

Species and numbers of fish caught by members of your class or family during one summer

The types of forest products produced or used by your community

Number of people living in your community who use the outdoors for recreation

The types of outdoor recreation enjoyed by people in your community

Other related subject approved by the Leader or local Department of Conservation staff      Subject: \_\_\_\_\_



### 126. Video Documentary

Produce and show to a school class, club or other group a narrated video (at least 10 minutes long) about an environmental problem or issue, *Frontiers* project, wildlife or forestry management program, soil conservation project or related subject (maximum of one video produced and shown per achievement level), 500 pts.

	POINTS EARNED	DATE COMPLETED	LEADER APPROVAL
Indicate Achievement Level _____			
Indicate Achievement Level _____			
Indicate Achievement Level _____			



**127. Slide or Digital Image Documentary**

Produce and show to a school class, club or other group a narrated slide program or digital image program (at least 20 slides or images) about an environmental problem or issue, *Frontiers* project, wildlife or forestry management program, soil conservation project or related subject (maximum of one show produced and shown per achievement level), 500 points possible.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

**128. Conservation Storybook**

Write a conservation-related storybook (with illustrations) for children. Read your storybook to a child or group of children showing the illustrations during the reading (maximum of one storybook written and read to a child or group of children per achievement level), 500 pts.

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

Indicate Achievement Level \_\_\_\_\_

POINTS EARNED	DATE COMPLETED	LEADER APPROVAL



## Additional Activities Approved by the Leader and Department of Conservation

This section of the *Frontiers Program Guide* is for activities designed by your leader and approved by personnel of the Missouri Department of Conservation. The results for each of these activities should be placed in your *Frontiers* notebook.

129. Activity:

POINTS POSSIBLE	POINTS EARNED	DATE COMPLETED	LEADER APPROVAL

130. Activity:

--	--	--	--

131. Activity:

--	--	--	--



34

132. Activity:

--	--	--	--

133. Activity:

--	--	--	--

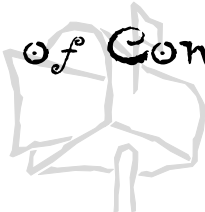
134. Activity:

--	--	--	--

135. Activity:

--	--	--	--

# List of Contacts



## 4-H

**University of Missouri Extension**, 1-31 Agriculture Building, Columbia, MO 65211,  
(573)882-4337

## Adopt-a-Highway Program

**Missouri Department of Transportation**, Capitol and Jefferson Sts., P.O. Box 270, Jefferson City,  
MO 65102, phone (573)751-2551

## Arbor Day, Tree Orders

**Missouri Department of Conservation**, 2901 West Truman Boulevard, P.O. Box 180, Jefferson  
City, MO 65102-0180, phone (573)751-4115, <[www.conservation.mo.state.us](http://www.conservation.mo.state.us)>

**Forest Releaf of Missouri**, 4207 Lindell Blvd., Suite 120, St. Louis, MO 63108, phone  
(888)936-7378

## Envirothon

**Missouri Association of Soil and Water Conservation Districts**, 1911 Boggs Creek Road, Jefferson  
City, MO 65101, phone (573)893-5188

## Junior Duck Stamp Contest

**Missouri Department of Conservation**, 2901 West Truman Boulevard, P.O. Box 180, Jefferson  
City, MO 65102-0180, phone (573)751-4115, <[www.conservation.mo.state.us](http://www.conservation.mo.state.us)>

## Junior Naturalist Award Program

**Missouri Department of Natural Resources**, 205 Jefferson Street, P.O. Box 176, Jefferson City,  
MO 65102-0176, phone (800)334-6946

## Missouri Forestkeepers Network

**Missouri Department of Conservation**, 2901 West Truman Boulevard, P.O. Box 180, Jefferson  
City, MO 65102-0180, phone (573)751-4115, <[www.conservation.mo.state.us](http://www.conservation.mo.state.us)>

**Forest Releaf of Missouri**, 4207 Lindell Blvd., Suite 120, St. Louis, MO 63108, phone  
(888)936-7378

## Missouri Stream Teams (Storm Drain Stenciling, Water Quality Testing)

**Missouri Department of Conservation**, 2901 West Truman Boulevard, P.O. Box 180, Jefferson  
City, MO 65102-0180, phone (800)781-1989, <[www.mostreamteam.org](http://www.mostreamteam.org)>

**Missouri Department of Natural Resources**, 205 Jefferson Street, P.O. Box 176, Jefferson City,  
MO 65102-0176, phone (800)334-6946

**Conservation Federation of Missouri**, 728 W. Main, Jefferson City, MO 65101, phone  
(800)575-2322

## National Hunting and Fishing Day Events, National Wildlife Week, Earth Day

**Missouri Department of Conservation**, 2901 West Truman Boulevard, P.O. Box 180, Jefferson  
City, MO 65102-0180, phone (573)751-4115, <[www.conservation.mo.state.us](http://www.conservation.mo.state.us)>

**Conservation Federation of Missouri**, 728 W. Main, Jefferson City, MO 65101, phone  
(800)575-2322

## Soil Conservation Poster Contest

**Missouri Association of Soil and Water Conservation Districts**, 1911 Boggs Creek Road, Jefferson  
City, MO 65101, phone (573)893-5188

**Natural Resource Conservation Service**, Parkade Center Suite 250, Bus. Loop 70 W., Columbia,  
MO 65203, phone (573)876-0900



# Conservation References

## Free Publications from the Department of Conservation

These free publications from the Department of Conservation cover a variety of conservation topics. You can request up to 20 items (one copy of each selection). Many are also available on our web site. Visit us at <<http://www.conservation.state.mo.us>>. Please send the request to DISTRIBUTION CENTER, Missouri Department of Conservation, P.O. Box 180, Jefferson City, MO 65102-0180.

Please print your name and address.

NAME		
ADDRESS		
CITY	STATE	ZIP

## ANIMALS AND PLANTS

### Mammals

- ☐ Cottontail Rabbit
- ☐ Coyote
- ☐ Fox
- ☐ Raccoon
- ☐ Skunks
- ☐ Squirrels
- ☐ White-tailed Deer
- ☐ Missouri Game Animals and Furbearers

### Reptiles & Amphibians

- ☐ Missouri Toads and Frogs
- ☐ Missouri Turtles
- ☐ Snakes of Missouri
- ☐ Lizards of Missouri

### Trees & Other Plants

- ☐ Common Trees of Missouri
- ☐ Missouri Forests
- ☐ Conservation Trees and Shrubs
- ☐ Missouri Urban Trees
- ☐ Edible and Poisonous Mushrooms
- ☐ Common Roadside Wildflowers
- ☐ Poison Ivy

### Birds

- ☐ Enjoying Missouri Birds
- ☐ Bald Eagles in Missouri
- ☐ Missouri Owls
- ☐ Winter Birds

## FISHING AND HUNTING

### Fish

- ☐ Introduction to Missouri Fishes
- ☐ ID of Rainbow and Brown Trout
- ☐ Introduction to Fishing
- ☐ Missouri Fishing Regulations
- ☐ Carp Baits and Recipes

### Hunting

- ☐ Missouri Hunting and Trapping Regulations
- ☐ Wildlife Code Book

### Where to Go

- ☐ Missouri Outdoor Map
- ☐ Trail Brochure

## BACKYARD NATURE

### KNOW-HOW

- ☐ Landscaping for Backyard Wildlife
- ☐ Butterfly Gardening
- ☐ Backyard Birdfeeding
- ☐ Bird Feeder Plans
- ☐ Woodworking for Wildlife
- ☐ Tree Planting Details

## IMPROVING YOUR ACRES

### Ponds

- \_\_\_\_\_ Pond Handbook
- \_\_\_\_\_ Pond Stocking Application
- \_\_\_\_\_ Care of a New Pond

### Streams & Wetlands

- \_\_\_\_\_ How to Care for Missouri Streams
- \_\_\_\_\_ Restoring Streambanks with Willows

### Fields

- \_\_\_\_\_ Native Grasses
- \_\_\_\_\_ Native Grasses for Wildlife

### Forests

- \_\_\_\_\_ Forestry with Confidence
- \_\_\_\_\_ Trees Along Streams
- \_\_\_\_\_ Watershed Protection Practices

### For Wildlife

- \_\_\_\_\_ Brushpiles
- \_\_\_\_\_ Forest Edge
- \_\_\_\_\_ Woodland Protection and Wildlife

## Miscellaneous

- \_\_\_\_\_ Map and Compass
- \_\_\_\_\_ Form a Missouri Stream Team
- \_\_\_\_\_ Teacher and Youth Leader Material Request Form





Try these or similar references for identifying plants and animals. Look for copies at your local bookstore or library.

### **Amphibians and Reptiles**

*Amphibians and Reptiles of Missouri.* Tom R. Johnson. Missouri Department of Conservation, 1987.

### **Birds**

*Birds of North America.* Chandler S. Robbins, et al. Golden Field Guide Series. Golden Press, 1983.

*A Field Guide to Eastern Birds: A Field Guide to Birds East of the Rockies.* Roger Tory Peterson. Peterson Field Guide Series. Boston: Houghton Mifflin, 1984.

### **Fish**

*Fishes of Missouri.* William L. Pflieger. Missouri Department of Conservation, 1998.

### **Insects**

*Butterflies and Moths of Missouri.* Richard Heitzman and Joan Heitzman. Missouri Department of Conservation, 1987.

*A Field Guide to the Insects of America North of Mexico.* Donald J. Borror and Richard E. White. Peterson Field Guide Series. Boston: Houghton Mifflin, 1995.



### **Mammals**

*A Field Guide to the Mammals.* William H. Burt. 3rd ed. Peterson Field Guide Series. Boston: Houghton Mifflin, 1975.

*The Wild Mammals of Missouri.* Charles W. Schwartz and Elizabeth R. Schwartz. Columbia: University of Missouri Press, 1981.

### **Maps**

*Missouri Nature Viewing Guide.* Missouri Department of Conservation, 1995.

*Missouri's Conservation Atlas-A Guide to Exploring Your Conservation Lands.* Missouri Department of Conservation, 1995.

### **Plants**

*Field Guide to Missouri Ferns.* James S. Key. Missouri Department of Conservation, 1982.

*A Field Guide to Trees of the Eastern United States and Canada.* George A. Petrides. Peterson Field Guide Series. Boston: Houghton Mifflin, 1988.

*A Field Guide to Wildflowers of Northeastern and North Central America.* Roger Tory Peterson and Margaret McKenney. Peterson Field Guide Series. New York: Houghton Mifflin, 1968.

*Missouri Wildflowers.* Edgar Denison. Missouri Department of Conservation, 1998.

*Trees of North America.* C. Frank Brockman. New York: Golden Press, 1986.

# Notes



# Notes

